

Message Text

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TO AMEMBASSY SAN JOSE PRIORITY

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E.O. 11652: N/A

TAGS: EFIS, CS

SUBJECT: MESSAGE FOR R.L. EDWARDS (NMFS)

1. DEPARTMENT HAS BEEN REQUESTED BY THE NATIONAL MARINE FISHERIES SERVICE (NMFS) TO PASS FOLLOWING TO DR. ROBERT L. EDWARDS, DIRECTOR OF THE NORTHEAST FISHERIES CENTER, WOODS HOLE, MA, THROUGH MANUEL BARRERA, SECOND SECRETARY. DR. EDWARDS WILL PICK UP MESSAGE AT EMBASSY ON APRIL 20.

2. BEGIN TEXT:

PROTOCOL OF THE MEETING OF THE HYDROACOUSTIC GROUP IN SECTION V-2-1 OF THE US-USSR COOPERATIVE STUDIES OF THE WORLD OCEAN "THE BIOPRODUCTIVE SYSTEM OF THE NORTHWEST ATLANTIC."

APRIL 20, 1977

NORTHEAST FISHERIES CENTER

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WOODS HOLE, MA USA

I. HAVING DISCUSSED THE RESULTS OF COOPERATIVE HYDROACOUSTIC RESEARCH CONDUCTED ON THE R/V KHROMETER IN 1976 AS WELL AS REVIEWING THE PROGRAM OF AUTOMATED PROCESSING OF

HYDROACOUSTIC DATA AND SPECIFIC MEASURING APPARATUS
PROPOSED BY NORTHEAST FISHERIES CENTER (NEFC).

THE PARTICIPANTS OF THE MEETING PROPOSE THE FOLLOWING:

--JOINT HYDROACOUSTIC METHODS ARE RECOMMENDED FOR RELATIVE
ESTIMATES OF DENSITY AND DISTRIBUTION OF FISH
CONCENTRATIONS IN SMALL REGIONS OF THE SEA.

--WITH THE GOAL OF IMPROVING HYDROACOUSTIC METHODS, IT IS
NECESSARY TO CONTINUE JOINT EXPERIMENTS TO DETERMINE THE
SCATTERING CHARACTERISTICS OF SINGLE FISH AND FISH
CONCENTRATIONS UNDER VARIOUS BEHAVIORAL AND ENVIRONMENTAL
CONDITIONS. - -

--THE INSTRUMENTATION PROPOSED BY NEFC AND THE DEVELOPED
PROGRAM OF AUTOMATED ECHO SIGNAL PROCESSING OF
HYDROACOUSTIC DATA EMBODIES CURRENT TECHNOLOGY, IS
CONVENIENT, COST EFFECTIVE AND IS SUITABLE FOR THE
RECOMMENDED RESEARCH. IN ADDITION, THIS EQUIPMENT CAN
PROVIDE RAPID QUALITATIVE PROCESSING OF DATA GATHERED
DURING HYDROACOUSTIC SURVEYS.

--EXPERIMENTS AND HYDROACOUSTIC SURVEY USING THE NEFC
APPARATUS IS PROPOSED TO BE CONDUCTED IN SEPTEMBER-
OCTOBER 1977 ON BOARD AMERICAN AND SOVIET RESEARCH VESSELS
IN THE GEORGES BANK REGION.

--FURTHER DEVELOPMENT OF THIS WORK IS PROPOSED TO BE
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CONDUCTED IN APRIL 1978 IN THE BALTIC SEA WITH
PARTICIPATION OF AMERICAN, SOVIET AND POLISH RESEARCH
VESSELS (AS DISCUSSED BY PARTICIPANTS OF THE MEETING OF
THE INTERNATIONAL EXPERIMENT "HERRING HYDROACOUSTICS,
1975").

II. IN PREPARATION FOR AND IN ORDER TO CONDUCT THE
EVALUATION OF FISH RESOURCES IN THE FISHING AREAS OF THE
WORLD OCEANS THERE IS A NEED TO BEGIN THE DEVELOPMENT OF
SPECIAL APPARATUS TO PROVIDE ESTIMATES OF THE DENSITY OF
FISH CONCENTRATIONS BASED UPON THE INSTRUMENTATION
CURRENTLY PROPOSED FOR THE RESEARCH RECOMMENDED IN THIS
PROTOCOL. THE PURPOSE OF THIS DEVICE IS TO PROVIDE A
RAPID RELATIVE ESTIMATE OF DENSITY AND NUMBER OF FISH IN

SITU. THIS DEVICE SHOULD BE SIMPLE TO OPERATE AND
DEPLOYED ON BOTH FISHERIES RESEARCH AND FISHING VESSELS.
CENTRALIZED COLLECTION OF DATA ACQUIRED WITH THIS
APPARATUS WILL PROVIDE THE OPPORTUNITY TO ASSESS THE

NUMBER OF FISH IN A SPECIFIED AREA. IN ADDITION, SUCH APPARATUS WILL ALLOW THE FISHERMAN TO MORE OBJECTIVELY ASSESS FISHING CONDITIONS AND CONDUCT FISHING OPERATIONS CONSISTENT WITH REALISTIC CONSERVATIONS MEASURES. IN ORDER TO ADDRESS THIS PROBLEM, THE PARTICIPANTS OF THE MEETING PROPOSE: (1) TO JOINTLY SPECIFY TECHNICAL REQUIREMENTS OF THE APPARATUS; (2) DURING 1977-1978 JOINTLY DEVELOP A PROTOTYPE MODEL.

III. THE PARTICIPANTS RECOGNIZE THE CRITICAL NEED FOR INTERNATIONAL COOPERATION IN HYDROACOUSTIC RESEARCH. ALSO, THERE IS A NEED FOR A SINGLE INTERNATIONALLY RECOGNIZED METHOD FOR HYDROACOUSTICAL MEASUREMENTS AND ESTIMATION OF BIOMASS. THEREFORE, IT IS PROPOSED TO BEGIN COOPERATIVE WORK WHICH WILL LEAD TO THE CONVENING OF AN INTERNATIONAL SYMPOSIUM. IT IS PROPOSED TO CONVE NE THIS SYMPOSIUM IN MID-1978 UNDER JOINT SPONSORSHIP AND UNCLASSIFIED

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TO HOLD IT AT THE CHARLES STARK DRAPER LABORATORY. THE PRINCIPAL GOAL OF THIS ACTIVITY WILL BE TO ESTABLISH A DEFINITIVE ESTIMATE OF THE CURRENT STATE OF DEVELOPMENT OF HYDROACOUSTICAL METHODS FOR AQUATIC BIOMASS MEASUREMENTS, THE IDENTIFICATION OF POTENTIAL IMPROVEMENTS AND MOST IMPORTANT, THE EFFECTIVENESS OF HYDRACOUSTICAL METHODS IN RELATION TO OTHER TECHNIQUES FOR PURPOSES OF FISHERIES RESOURCE ASSESSMENT.

FROM USA - JOHN B. SUOMALA, JR., CHARLES STARK DRAPER LAB. CAMBRIDGE, MASSACHUSETTS

FROM USSR - KIR I. YUDANOV, VNIRO, MOSCOW, USSR

FROM USA - BRADFORD E. BROWN, NMFS, NORTHEAST FISHERIES CENTER, WOODS HOLE, MASSACHUSETTS

FROM USSR - SVIATOSLAW I. SARANCHOV, VNIRO, MOSCOW, USSR

FROM USSR - VLADLEN M. VOROBYEV, ATLANTNIRO, KALININGRAD, USSR: END TEXT
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Message Attributes

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Disposition Case Number: n/a
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Status: NATIVE
Subject: MESSAGE FOR R.L. EDWARDS (NMFS)
TAGS: EFIS, OCLR, TGEN, CS, US, UR, (EDWARDS, ROBERT L)
To: SAN JOSE
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